



Report

		Project Reference:
Installation Company:	QDS Group	
Project Address:	Outbuilding and Main House at 11 Sheldon Avenue, London, N6 4JS	

Following on from the documents provided for Reference: Outbuilding and Main House at 11 Sheldon Avenue, London, N6 4J that have been completed remotely from the plans and information provided:

One of the each of the following for the outbuilding and one for the main house:

- Room by room heat loss calculations
- Proposed emitter schedule
 - o Ground floor – UFH
 - o First floor – UFH
 - o Second floor – UFH
- Hot water design
- Heat pump design
- System performance estimate
 - o Completed based on an alternative heat source being electric as the property is new-build.
- Plans
 - o The plans & information that were used to complete the calculations

We have based the heat loss calculations for both properties on the following u-values present on the plans/SAP calculations provided:

- Build date – 2026
- Walls – 0.14W/m2K
- Floor – 0.10W/m2K
- Intermediate floors - insulated
- Windows/doors/velux's – 1.05W/m2K
- Roof – 0.10W/m2K

The heat demand of the main house is 12.947kW. So, the 17kW Stiebel Eltron HPO-17.2 would be suitable alongside a 270L cylinder (based on the property being 5-bedrooms). The hot water design has been based on the SBB 501 WP SOL 500L cylinder as per the specification. I have completed the emitter schedule and design based on a 45 c flow temperature.

The heat demand of the outbuilding is 4.273kW. So, the 7kW Stiebel Eltron HP-O 7.2 Plus ASHP be suitable alongside a minimum 90L cylinder (based on the property being 1-bedroom). The hot water design has been based on the HSBC 220S cylinder as per the specification. I have completed the emitter schedule and design based on a 45 c flow temperature.